Signature

+_____

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE 10/790,959 Application Number IDS FORM March 1, 2004 Filing Date INFORMATION DISCLOSURE Takemori TAKAYAMA First Named Inventor STATEMENT BY APPAICANT Group Art Unit OCT 16 2007 Deborah YEE Examiner Name 1 03773/HG Sheet Attorney Docket Number

U.S. PATENT DOCUMENTS

	Name of Patentee or Applicant	Kind Code ²	Document Number	Cite No ¹	Exam. Inits*
TD 05-31-2005	KOMATSU LTD	B2	6,899,774		ra
	REPUBLIC STEEL CORPORATION		RE 28,523	,	fa
AR INC 07-21-1992	CATERPILLAR INC	A .	5,131,965		Ya
OF ENERGY 07-24-1979	USA/DEPT OF ENERGY		4,162,157	7	Ya
OF ENERGY 07-24-1979	USA/DEPT OF ENERGY			-	10

FOREIGN PATENT DOCUMENTS

i							
Exam Cite Inits No	Offc³	Document Number	Kind Code ^s	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	Т6
27	JP	49-7117	A	MITSUBISHI STEEL MFG CO LTD	01-22-1974		a
DA	JP	54-10923	B2	NIPPON STEEL CORP	05-10-1979		a
	JP	54-23329	- B2	KOMATSU LTD	08-13- 1979		a
PA	JP	55-12184	B2	TOYOTA MOTOR CORP	03-31-1980		a
OX	JР	57-10177	B2	TOPY INDUSTRIES	02-25-1982		a
10	JР	57-16186	B2	KAWASAKI HEAVY IND LTD	03-08-1977		b
07	JP	57-19183	B2	NIPPON STEEL CORP	03-23-1978	,	b
04	JP	55-2789	A	KOMATSU LTD	01-10-1980		ь

* EXAMINER: Initial if document considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Considered

¹ Unique citation designation number. ² See kinds of U.S. Patent Documents. ¹ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁴ Place a check here if English translation is attached.

DATE: October 16, 2007

J.S.	Patent	and	Trademark	Office:	U.S.	DEPARTMENT	OF	COMMERC
+								

				Inside Chis			k Off	ice: U.S. DEPAR	TMENT OF COM	IMER	
IDS 1	FORM				Applica	tion Number	10/790,959				
					Filing Date		March 1, 2004				
	NFORMATION DISCLOSURE TATEMENT BY APPLICANT			First N	amed Inventor	Tal	kemori TAKAYA	MA			
SIAII	TATEMENT BY APPLICANT				Group Art Unit			1742 1793			
					Examine	r Name	Deb	oorah YEE	·····		
Sheet		2	of	4	Attorne	y Docket Number	03773/HG			_	
SHEEL			OL						· · · · · · · · · · · · · · · · · · ·		
	1	1		<u>י</u>	.S. PATI	ENT DOCUMENTS					
Exam. Inits*	Cite No ¹	Docur	ment Numb	per	Kind Code²	Name of Patentee of Applicant	or	Publication Date MM-DD-YYYY	Relevar Portio		
							ĺ				
	•	,		FO	REIGN PA	ATENT DOCUMENTS					
Exam Inits'	Cite No¹	Offc'	Documen	t Number	Kind Code ^s	Name of Patentee o Applicant	or	Publication Date MM-DD-YYYY	Relevant Portion	Т	
DX		JР	57-894	24	A	SUMITOMO METAL IN	ND	06-03-1982		а	
DY		JР	57-174	434	A	KOMATSU LTD		10-27-1982		a	
py		JР	59-107	066	A	MITSUBISHI HEAVY IND LTD		06-21-1984		a	
\mathfrak{D}_{λ}		JР	59-136	451	A	MITSUBISHI HEAVY		08-06-1984		a	
DY	_	JР	5-3246	2	B2	NIPPON STEEL CORP	,	07-07-1989		а	
py		JР	7-7438	0	B2	NIPPON STEEL CORP	-	10-02-1991		a	
ρÝ		JР	5-5942	7	B2	MITA IND CO LTD		03-30-1984		a	
DA		JР	322773	0	B2	DAIDO STEEL CO LT	מיז	03-02-1993		а	
27		JР	55-121	77	B2	KOMATSU LTD		01-10-1977	,	a	
0)		JР	54-124	316	A	MITSUBISHI HEAVY IND LTD		09-28-1979		а	
py		JP	54-143	715	A	MITSUBISHI HEAVY IND LTD		11-09-1979		a	
							\dashv			-	

Signature Considered * EXAMINER: Initial If document considered whether or not citation is in conformance with MPEP 609. Draw line th citation if not in conformance and not considered. Include copy of this form with next communication to applicant. document considered whether or not citation is in conformance with MPEP 609. Draw line through

Date

19

Examiner

Unique citation designation number. See kinds of U.S. Patent Documents. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Place a check here if English translation is attached.

DATE: October 16, 2007 a ENGLISH-LANGUAGE ABSTRACT ENCLOSED

Please type a plus sign (+) inside this box → Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE 10/790,959 Application Number IDS FORM March 1, 2004 Filing Date INFORMATION DISCLOSURE Takemori TAKAYAMA First Named Inventor STATEMENT BY APPLICANT 1793 Group Art Unit Deborah YEE Examiner Name 4 03773/HG Attorney Docket Number Sheet of U.S. PATENT DOCUMENTS Kind Name of Patentee or Publication Relevant Cite Exam. Document Number Code² Applicant No Inits* Date MM-DD-YYYY Portion 2004/0047757 **A1** TAKAYAMA 03-11-2004 FOREIGN PATENT DOCUMENTS Kind Name of Patentee or Publication Relevant Exam Document Number4 Inits' No Offc1 Code⁵ Applicant Date MM-DD-YYYY Portion T^6 JΡ 04-26-2002 2002-121645 NKK BARS & SHAPES a CO LTD JP 60-215743 SUMITOMO METAL 10-29-1985 а INDUSTRIES CO LTD JP 05-078781 SUMITOMO METAL IND 03-30-1993 a LTD et al JP 9-111403 TOA STEEL CO LTD 04-28-1997 а JP 8-109435 TOA STEEL CO LTD 04-30-1996

EXAMINER: Initial if document considered. whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not cong dered. Include copy of this form with next communication to applicant.

Α

KOMATSU LTD

Considered

Date

a

03-27-1973

DATE: _October 16, 2007

Examiner ·

Signature

JP

48-23617

¹ Unique citation designation number. ² See kinds of U.S. Patent Documents. ' Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 'For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ' Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 'Place a check here if English translation is attached.

a ENGLISH-LANGUAGE TRANSLATION ENCLOSED

			_						
Please	type	а	plus	sign	(+)	inside	this	box	-

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

IDS FORM		Application Number	10/790,959					
INFORMATION DISC	N OCIDE	Filing Date	March 1, 2004	March 1, 2004				
STATEMENT BY API		First Named Inventor	Takemori TAKAYAMA	akemori TAKAYAMA				
		Group Art Unit	1742 1793					
		Examiner Name	Examiner Name Deborah YEE					
Sheet 4	of 4	Attorney Docket Numb	er 03773/HG					
отн	ER DOCUMENTS	- NON-PATENT LITE	RATURE DOCUMENTS					
Examiner Cite Incl	ude name of autho	r (in CAPITAL LETTERS), titl ue number(s), publisher, cit	e of article, title of item, date, y and/or country where published	T²				
p J.R. E	DAVIS, "ASM METALS	HANDBOOK", Second Edition,	(1998)					
			· .					
			•					
			``					
Examiner Signature	maly g	Date Considered	12-14-07					

^{*} EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 Place a check here if English translation is attached.

DATE: October 16, 2007